

WHAT IS CLAIMED IS:

1. A driving apparatus comprising:

a driving source;

a driven member;

an energizing member which energizes the driven member in a predetermined direction;

a lever member rotatable by receiving the driving force from the driving source at an input portion, which contacts and charges the driven member; and

a main body which includes a first engaging portion and a second engaging portion and supports the lever member,

wherein the lever member includes a first engaged portion which engages with the first engaging portion and a second engaged portion which engages with the second engaging portion, and

the lever member is rotated around a first axis by engaging the first engaging portion and the first engaged portion with each other, and in the middle of rotation, the lever member is rotated around a second axis by engaging the second engaging portion and the second engaged portion with each other.

2. The driving apparatus according to claim 1, wherein the following expression is satisfied,

$$S > A + B$$

where S is the sum total of rotation angles around the

first axis and the second axis of the lever member,

A is the angle formed by the straight line connecting the first engaging portion and the input portion at the start of charging and the straight line orthogonal to the direction of the force transmitted to the input portion,

B is the angle formed by the straight line connecting the second engaging portion and the input portion when charging is completed and the straight line orthogonal to the direction of the force transmitted to the input portion.

3. The driving apparatus according to claim 1, further comprising a transmission member which contacts the input portion and transmits the driving force to the lever member.

4. The driving apparatus according to claim 1, wherein the distance between the first engaged portion and the input portion is substantially equal to the distance between the second engaged portion and the input portion.

5. The driving apparatus according to claim 1, wherein the first engaged portion and the second engaged portion are placed in such a way as to be substantially parallel to the direction of transmission of the driving force at the point of contact between the driven member and the lever member.

6. The driving apparatus according to claim 1, wherein the position of engagement between the first engaging portion

and the first engaged portion is different from the position of engagement between the second engaging portion and the second engaged portion in the directions of the rotation axes of the lever member.

7. A driving apparatus comprising:

a driving source;

a driven member;

an energizing member which energizes the driven member in a predetermined direction;

a lever member rotatable by receiving the driving force from the driving source at an input portion, which contacts and charges the driven member; and

a main body which includes a first engaged portion and a second engaged portion and supports the lever member,

wherein the lever member includes a first engaging portion which engages with the first engaged portion and a second engaging portion which engages with the second engaged portion, and

the lever member is rotated around a first axis by engaging the first engaging portion and the first engaged portion with each other, and in the middle of rotation, the lever member is rotated around a second axis by engaging the second engaging portion and the second engaged portion with each other.

8. The driving apparatus according to claim 7, wherein the

following expression is satisfied,

$$S > A + B$$

S is the sum total of rotation angles around the first axis and the second axis of the lever member,

A is the angle formed by the straight line connecting the center of the first engaged portion and the input portion at the start of charging and the straight line orthogonal to the direction of the force transmitted to the input portion,

B is the angle formed by the straight line connecting the center of the second engaged portion and the input portion when charging is completed and the straight line orthogonal to the direction of the force transmitted to the input portion.

9. The driving apparatus according to claim 7, further comprising a transmission member which contacts the input portion and transmits the driving force to the lever member.

10. The driving apparatus according to claim 7, wherein the distance between the first engaging portion and the input portion of the lever member is substantially equal to the distance between the second engaging portion and the input portion of the lever member.

11. The driving apparatus according to claim 7, wherein the first engaging portion and the second engaging portion are

placed in such a way as to be substantially parallel to the direction of transmission of the driving force at the point of contact between the driven member and the lever member.

12. The driving apparatus according to claim 7, wherein the position of engagement between the first engaging portion and the first engaged portion is different from the position of engagement between the second engaging portion and the second engaged portion in the directions of the rotation axes of the lever member.

13. A shutter apparatus comprising:

- a driving source;

- a front curtain constructed of a plurality of blades;

- a rear curtain constructed of a plurality of blades;

- a first driving lever which drives charging of the front curtain;

- a second driving lever which drives charging of the rear curtain; and

- a driving force transmission member rotatable by receiving the driving force from the driving source, which includes a first arm portion which contacts the first driving lever and transmits the driving force and a second arm portion which contacts the second driving lever and transmits the driving force,

wherein the driving force transmission member starts charging when the distance between the rotation center and

the point of contact with the first driving lever is greater than the distance between the rotation center and the point of contact with the second driving lever and is set through switching of the rotation center at some midpoint so that the distance between the rotation center and the point of contact with the second driving lever is greater than the distance between the rotation center and the point of contact with the first driving lever.

14. The shutter apparatus according to claim 13, wherein one of the driving force transmission member and the main body which supports the driving force transmission member includes a first engaging portion and a second engaging portion,

the other includes a first engaged portion and a second engaged portion which engage with the first engaging portion and second engaging portion,

the driving force transmission member is rotated around first axis by engaging the first engaging portion and the first engaged portion with each other and, in the middle of rotation, is rotated around second axis by engaging the second engaging portion and the second engaged portion with each other, and

the driving force transmission member rotates about the first axis, starts charging when the distance between the first engaging portion and the point of contact with the first driving lever is greater than the distance between the

first engaging portion and the point of contact with the second driving lever and is set through switching the rotation axis of the driving force transmission member from the first axis to the second axis so that the distance between the second engaging portion and the point of contact with the second driving lever is greater than the distance between the second engaging portion and the point of contact with the first driving lever.

15. A camera comprising the shutter apparatus according to claim 13.